



# TERWA

*strong in simple solutions*



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## TORQUE WRENCH

## USER INSTRUCTIONS



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## TERWA USER INSTRUCTIONS FOR TORQUE WRENCH (ARTICLE 47818)

The Terwa Torque Wrench has been specially designed to ensure the correct mounting of the Rebar Connection System. The technical approval on the Terwa Rebar Connection System is based upon the fact that connections are tightened to the correct torque settings. Only correctly mounted rebar connections can be loaded to their full capacity. Read these instructions carefully before use.

### Calibration:

The torque wrench is delivered with a calibration report. This report should be carefully kept with your safety documents and work instructions. The calibration becomes valid on the date the tool is first used. It should be recalibrated periodically as mentioned in the original calibration certificate. Periodic recalibration should only be carried out by local accredited companies, and according to the control procedure that is mentioned on the original calibration certificate.



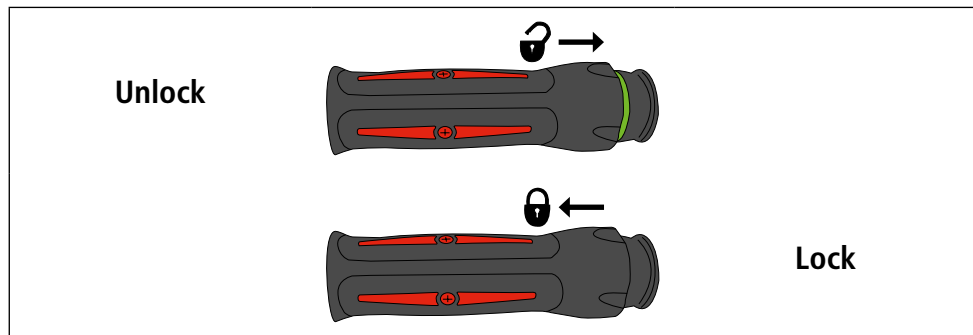
1. Rebar pliers.
2. Adjustment and pull handle.
3. Adjustment ring for opening and closing the pliers.
4. List of torque values per rebar size.

### General remark:

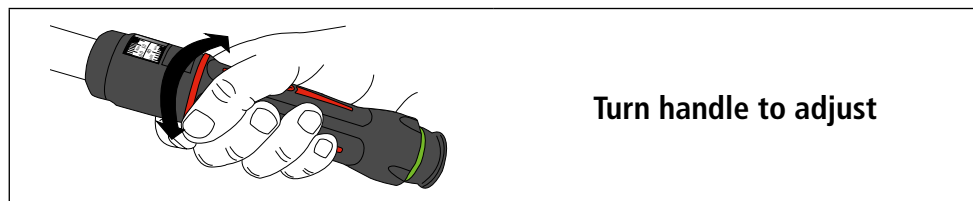
- This wrench is a calibrated piece of equipment and should be handled with care.
- This torque wrench should be stored in a dry place.
- Before each use, the wrench should be checked for damages. Any damage to the adjustment handle and the wrench shaft requires that the tool be recalibrated.
- When stored, the torque wrench handle should be turned back to the lowest possible value.

## USING AND ADJUSTING THE TORQUE SETTING

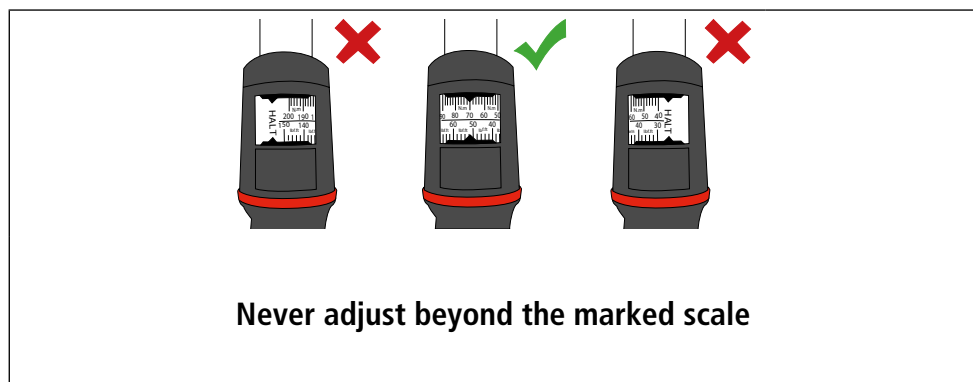
1). Unlock it, by pulling the end cap of the handle out.



2). Set the correct torque value (refer to torque value list) by turning the adjustment handle and lock the adjustment handle by pushing the end cap inwards.



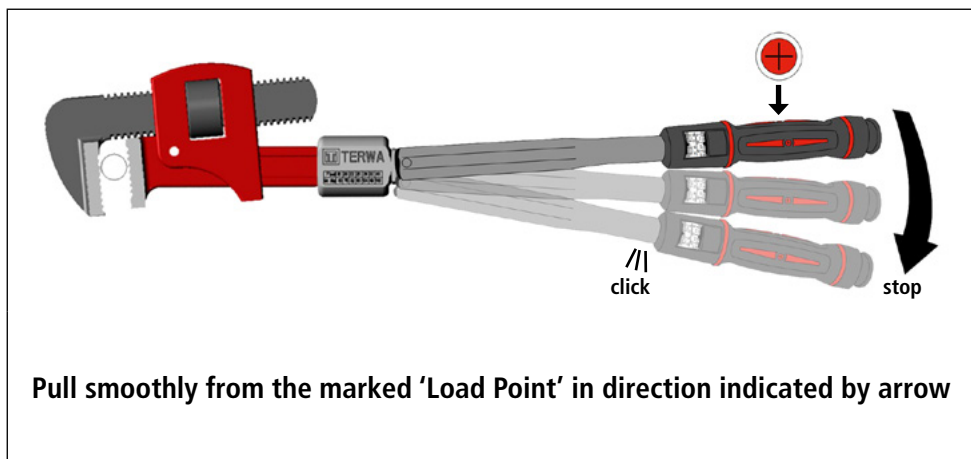
3). Never adjust beyond the marked positions.



4). Put the pliers of the wrench around the rebar that needs to be tightened and fix the adjustment ring. Test the grip of the pliers to the rebar.



5). Tighten the rebar connection to the correct value. Apply the pulling force of your hand at the “+” mark to make sure that the correct torque is used. Pull the wrench at a right angle and turn until the wrench “clicks”. Turning the rebar any further will overload the threaded connection and will no longer be safe.



## EXPLANATION OF TABLE FOR CORRECT SETTINGS

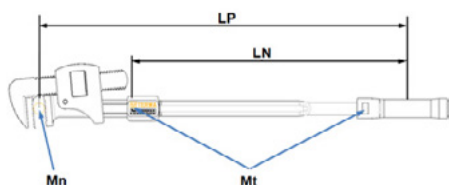
The Terwa Torque Wrench is based upon a regular NORBAR torque wrench which has been modified to fit a pipe wrench. The nature of a pipe wrench allows for a variable “arm”. The torque output on the product will therefore also be variable.

Please use the conversion table below to set the torque wrench to the correct value. A table with the correct value for each rebar size can also be found engraved on the tool.

Reinforcement diameter [mm]	Torque [Nm]	Setting torque by wrench Mt [Nm]
10	50	60
12	60	60
14	70	60
16	80	60
18	90	70
20	100	75
22	110	82
25	125	93
28	140	104
32	160	119
40	200	148



TERWA wrench



Mn - required torque  
Mt - torque setting by wrench  
Lp - length until each middle reinforcement steel  
LN - standard length wrench

$$Mt = Mn \times LN/LP$$

Terwa wrench dimensions

**Attention: the lowest possible torque value for this tool is 60Nm!**



The list of settings that should be used for the related rebar sizes.